

36-3214: Anti-StAR (Steroidogenic Acute Regulator) (Leydig Cell Marker) Monoclonal Antibody(Clone: STAR/2077)

Clonality :	Monoclonal
Clone Name :	STAR/2077
Application :	IHC
Reactivity :	Human
Gene :	STAR
Gene ID :	6770
Uniprot ID :	P49675
Alternative Name :	Cholesterol trafficker; Luteinizing hormone induced protein; Mitochondrial steroid acute regulatory protein; StAR; StAR related lipid transfer (START) domain containing 1; StARD1; START domain-containing protein 1; Steroid acute regulatory protein; Steroidogenic acute regulator (STAR); Steroidogenic acute regulatory protein mitochondrial
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant fragment (around aa 39-108) of human STAR protein (exact sequence is proprietary)

Description

Steroidogenic Acute Regulatory Protein (STAR) controls the rate-limiting step of steroidogenesis by translocating cholesterol from the outer mitochondrial membrane to the inner membrane where it is later cleaved to pregnenolone. It is primarily present in steroid-producing cells, including Leydig cells in the testis, theca cells and luteal cells in the ovary and adrenal cells in the adrenal cortex. Due to low levels of pregnenolone, seminomas and Leydig cell tumors display no specific STAR staining. Therefore, STAR antibody may assist in differentiating sex cord stromal tumors (SCST), seminomas and embryonal carcinomas.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2µg/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

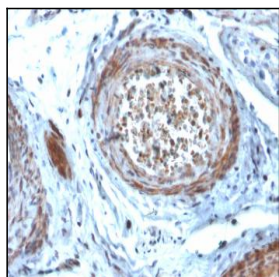


Fig. 1: Formalin-fixed, paraffin-embedded human Testis stained with StAR Mouse Monoclonal Antibody (STAR/2077).

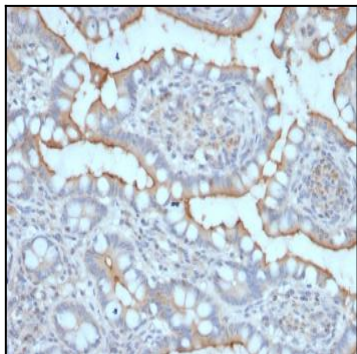


Fig. 2: Formalin-fixed, paraffin-embedded human Stomach stained with StAR Mouse Monoclonal Antibody (STAR/2077).

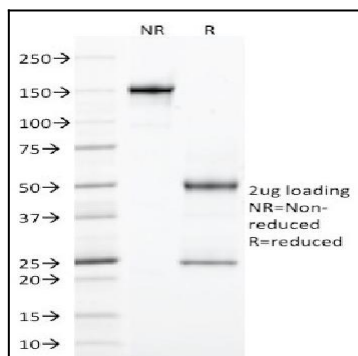


Fig. 3: SDS-PAGE Analysis Purified StAR Mouse Monoclonal Antibody (STAR/2077). Confirmation of Integrity and Purity of Antibody.